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APPLICATION NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/065,822	.822 11/22/2002		Robert E. Busch	FIS920010190	9648
29154	7590	09/29/2003			
FREDERIC		•	EXAMINER		
MCGINN & 2568-A RIV	,	C	HOANG, HUAN		
SUITE 304 ANNAPOLIS, MD 21401				ART UNIT	PAPER NUMBER
	-,			2818	
				DATE MAILED: 09/29/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)				
		10/065,822	BUSCH ET AL.				
	Office Action Summary	Examiner	Art Unit				
		Huan Hoang	2818				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).  - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).  Status							
1)[	Responsive to communication(s) filed on	_·					
2a) <u></u> ☐	This action is <b>FINAL</b> . 2b)⊠ Thi	s action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. <b>Disposition of Claims</b>							
4)[🛛	Claim(s) 1-20 is/are pending in the application						
	4a) Of the above claim(s) is/are withdrawn from consideration.						
5)[🗆	Claim(s) <u>8-20</u> is/are allowed.						
6)⊠	Claim(s) <u>1-3</u> is/are rejected.						
7)⊠	Claim(s) <u>4-7</u> is/are objected to.						
8) Claim(s) are subject to restriction and/or election requirement.  Application Papers							
9) The specification is objected to by the Examiner.							
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
11)☐ The proposed drawing correction filed on is: a)☐ approved b)☐ disapproved by the Examiner.							
If approved, corrected drawings are required in reply to this Office action.							
12)☐ The oath or declaration is objected to by the Examiner.							
Priority under 35 U.S.C. §§ 119 and 120							
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).							
a) All b) Some * c) None of:							
	1. Certified copies of the priority documents have been received.						
	2. Certified copies of the priority documents have been received in Application No						
<ul> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>							
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).							
a) The translation of the foreign language provisional application has been received.  15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.							
Attachment(s)							
2) Notic	te of References Cited (PTO-892) te of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449) Paper No(s)	5) 🔲 Notice of Informal F	(PTO-413) Paper No(s) Patent Application (PTO-152)				

## **DETAILED ACTION**

## Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. Claims 1, 2 and 3 are rejected under 35 U.S.C. 102(b) as being anticipated by Lines et al..

Lines et al. (Fig. 8) shows an array of content addressable memory cells having all the elements as recited in claims 1, 2 and 3 as follows:

- a search line SL1; and
- a bit line BL1<sub>L</sub> parallel to the search line;

wherein across the array, search and bit lines of the CAM are interdigitated, such that the search lines and bit lines alternate across the array.

The array includes a plurality of match lines perpendicular to the search lines and the bit lines; therefore, the first matchline and the last matchline are considered the top matchline and the bottom matchline. The array including macros comprising at least two of the CAM cells is inherent.

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## Allowable Subject Matter

3. Claims 8-20 are allowed.

4. Claims 4-7 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Claims 4-20 recite the array including macros comprising at least two of the CAM cells, wherein layouts of the macros are alternatively inverted with respect to one another within the array, such that layouts of each macro are inverted with respect to adjacent macros.

The advantage of the invention is to reduce capacitive coupling without requiring shielding or other complicated schemes.

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Huan Hoang whose telephone number is (703) 305-3494. The examiner can normally be reached on Mon-Fri 8:30AM-5:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David C Nelms can be reached on (703) 308-4910. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

Huan Hoang Primary Examiner

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HH